MSD

Louisville and Jefferson County Metropolitan Sewer District
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Louisville Kentucky 40203-1911
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June19, 2008

Mr. Femi Akindele
Remedial Project Manager
Kentucky/Tennessee Section
U.S. Environmental Protection Agency
Region IV
61 Forsyth Street
Atlanta, GA 30303

Re: Result of Air Quality Monitoring - FY 08, Fourth Quarter (FY08-4Q), Lees Lane Superfund Site, Jefferson County, Kentucky, Administrative Order on Consent, USEPA Docket No-91-32-C

Dear Mr. Akindele:

In accordance with paragraph 11, under Reporting Requirements, of the subject Consent Order and Attachment 1, Operation and Maintenance Plan For Post-Removal Site Control at the Lee's Lane Landfill Site. Section 4.2, Air Quality Monitoring, attached for your information and files is one photocopy each of the following items, prepared by URS Corporation, 1600 Perimeter Park Drive, Suite 100, Morrisville, North Carolina 27560 and received by MSD on June12, 2008.

1. URS Corporation letters dated June 9, 2008, 2 pages.
2. Figure 1, Lees' Lane Landfill, Sampling Locations, 1page.
3. Table 1, TO-15 Data Summary for Ambient Air Samples at the Lees' Lane Landfill, Sampling date: April17, 2008, 1 page.
4. Table 2, On-Site Meteorological Data, Sampling date, April17, 2008, 1 page.
5. Table 3, TO-15 Data Summary for Gas Monitoring Well Samples at the Lees' Lane Landfill, Sampling date April17, 2008, 1 page.

Please advise if you have any questions concerning the attached information.

Sincerely,

Richard H. Watkins, Sr.
Infrastructure Liaison

RHW/rw
Lees-08-4Qtr

Enc.

cc: Kentucky National Resource Environment Protection Cabinet
Mr. Ken C. Logsdon, Division of Waste Management
H. J. Schardein, Executive Director
Michael Griffith
Lees Lane File

URS

31825450.00002

June 9, 2008

Mr. Rick Watkins
Louisville Metropolitan Sewer District
3050 Commerce Center Place
Louisville, KY 40211

Dear Rick:

Enclosed is the summary analytical report for the ambient air and gas monitoring well samples collected at the Lee's Lane Landfill site on April 17, 2008 (Quarter 43). Five ambient samples, along with all six (G1, G2, G3, G4, G5R, G5L) well samples and a Field Blank were taken on April 17, 2008. The on-site ambient air sample duplicate (A2) was not collected because one collection canister lost vacuum pressure and could not be used.

A map of the site, labeled with the sample collection locations for your reference, is shown in Figure 1. Table 1 is a tabular summary of the ambient samples with the primary analytes required for submission to EPA. All ambient samples of methylene chloride, xylenes, benzene, and toluene were lower than the previous sampling event, and Xylenes were not detected. Methane was lower in this sampling period than it was in Fall 2007 samples.

The sampling locations were chosen based on a combination of prevailing on-site meteorology and accessible sites in the adjacent residential neighborhood per the standard sampling protocol. The meteorological conditions were moderate throughout the sampling day; warm (62-75 ^{O}F), slightly windy at times with a few strong gusts but mostly steady wind from the south or southwest at around 9 mph. The information displayed in Table 2 was obtained from the Louisville International Airport (Standiford Field) National Weather Service Station. The ambient air samples were collected in Summa canisters positioned 3-5 feet above ground level, integrated over an approximate 6-hour collection period.

The methane analysis was performed by GC/FID using a separate analytical system from the TO-15 analysis employed at STL in Austin. The TO-15 analytical methodology using Gas Chromatography/Mass Spectrometry (GC/MS) was employed. Samples were handled with standard laboratory chain-of-custody procedures. Sample canisters and flow controllers were cleaned and blanked using method TO-12 for total non-methane hydrocarbons prior to field deployment. All of the samples were successfully collected and analyzed for methane and the TO-15 target analytes. Quality control parameters of precision (repeatability) and spiking of surrogate compounds meet internal URS and project-required specifications.

The reliability of this data set can be characterized as good, based on the repeatability (analytical precision), surrogate spike recoveries, blank levels and the relatively few number of unresolved interfering peaks in the sample chromatograms. The April 17, 2008 field blank canister reported no positive hits other than the surrogate recoveries. The reported results have not been blank corrected in attached tables per our standard project procedure.

URS Corporation
1600 Perimeter Park Drive, Suite 400
Morrisville, North Carolina 27560
Telephone: 919.461.1100
Fax: 919.461.1415

URS

Table 3 is a tabular summary of the gas well samples with the primary analytes required for submission to EPA. Following field sample collection, well G-1 was sampled with a GA-90 analyzer to test for the presence of methane in the well. Methane was detected in both well heads at levels similar to previous sampling events and to recent monthly G-1 sampling events.

URS appreciates the opportunity to assist your staff with this project. Please advise me at (919) 461-1242 if you have any questions.

Sincerely,

Robert F. Jongleux
Project Manager

Enclosure

cc: Lauren Housley, URS/LOU
Project File/Task 43

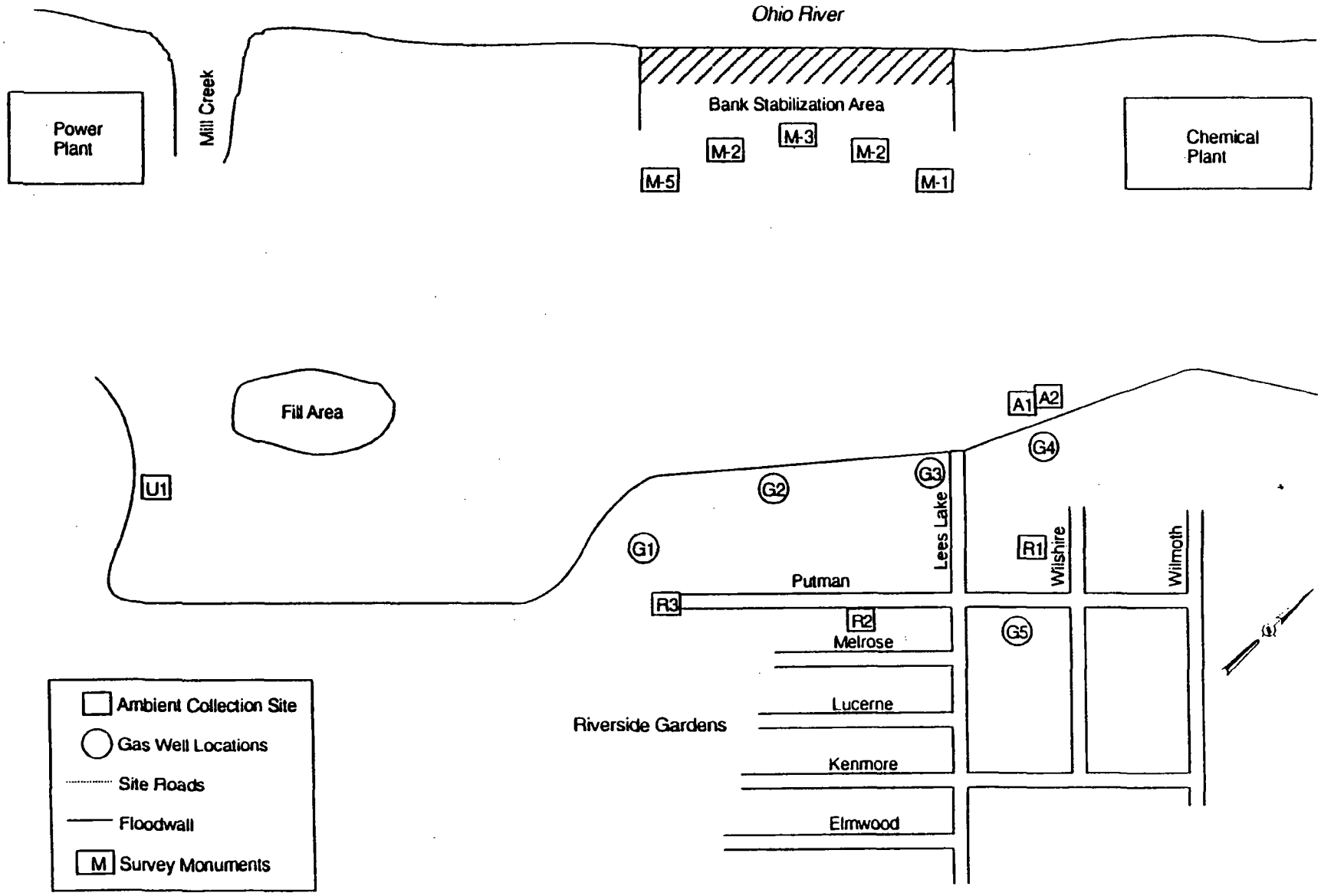

Figure 1. Lees Lane Landfill Sampling Locations

TABLE 1

TO-15 DATA SUMMARY FOR AMBIENT AIR SAMPLES AT THE LEE'S LANE LANDFILL SAMPLING DATE: 17 APRIL 2008

	Ambient Air Samples					
Sample ID	U1	A1	A2	R1	R2	R3
Canister ID	RA2143	RA2034	N/A	RA2116	RA2362	HL0948
Dilution Factor	3.267	2.6693	N/A	4.9262	4.1705	2.6849
Location	LG&E	ONSITE	ONSITE DUP.	4423 WILSHIRE	PUTNAM LANE	PUTNAM END
Veriflow ID	RA2031	RA2034	N/A	RA0890	RA2088	RA2104
Compound (ppbV)						
Benzene	ND	0.08	N/A	ND	ND	0.08
Methylene chloride	ND	ND	N/A	ND	ND	ND
Toluene	0.10	0.12	N/A	0.14	0.09	0.07
Vinyl chloride	ND	ND	N/A	ND	ND	ND
Xylene (Total)	ND	ND	N/A	ND	ND	ND
Methane (ppmV)	3.95	3.88	N/A	5.35	4.81	3.81

NC - Duplicate not collected due to canister leak
ND = Non Detect

TABLE 2

LOCAL METEOROLOGICAL DATA
AMBIENT AIR SAMPLES
SAMPLING DATE: 17 APRIL 2008

Time	Barometric Pressure (in Hg)	Temperature (°F)	Dewpoint (°F)	Wind Direction (from)	Wind Speed (mph)	Observation
10:00 AM	30.16	62	39	S	7	MOSUNNY
11:00 AM	30.16	66	44	SW	8G17	MOSUNNY
12:00 PM	30.17	68	45	SW	12G17	MOSUNNY
1:00 PM	30.14	70	47	SW	9	MOSUNNY
2:00 PM	30.13	72	46	S	9	MOSUNNY
3:00 PM	30.10	73	46	VRB	7	MOSUNNY
4:00 PM	30.08	74	45	S	12G20	SUNNY
5:00 PM	30.06	75	46	S	9	SUNNY
6:00 PM	30.05	75	43	S	10	SUNNY
7:00 PM	30.04	74	43	S	12	SUNNY
8:00 PM	30.02	73	42	S	8	CLEAR

Source: National Weather Service, Louisville, Ky.

TABLE 3

TO-15 DATA SUMMARY FOR GAS MONITORING

SAMPLING DATE: 17 April 2008

	Well Samples						
Sample ID	G1	G2	G3	G4	G5-L	G5-R	BLANK #1
Canister ID	HL0784	3602	HL0627	HL0923	RA2025	RA2136	5455
Dilution Factor	2.7089	2.5838	2.6199	2.6723	2.6404	2.6007	1
Orifice	RA2029	RA2093	RA2028	RA2025	RA2071	RA2067	N/A
Sampling Date	4/17/2008	4/17/2008	4/17/2008	4/17/2008	4/17/2008	4/17/2008	4/17/2008
Compound (ppbV)							
Benzene	0.11	ND	ND	ND	0.18	0.080	ND
Methylene chloride	ND	ND	ND	ND	ND	ND	ND
Toluene	0.32	ND	0.25	0.24	0.58	0.24	0.05
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND
Xylene (Total)	0.062	ND	0.219	ND	0.219	ND	ND
Methane (ppmV)	24.5	1.41	2.09	2.18	3.41	2.59	0.48

ND = Non-Detect